WHAT IS CLAIMED IS:

1. A surface acoustic wave device comprising:

a piezoelectric substrate;

an electrode unit for exciting a surface acoustic wave on a surface of said piezoelectric substrate; and

reflectors for reflecting the surface acoustic wave at said reflectors, wherein:

said electrode unit comprises interdigital electrodes including a thin-film layer formed of copper or a copper alloy, and a connecting electrode connected to each of the interdigital electrodes; and

when the wavelength of the surface acoustic wave is indicated by λ, and when the thickness of the interdigital electrodes is indicated by H, the standardized thickness H/λ of the interdigital electrodes ranges from 0.045 to 0.070, and said piezoelectric substrate is a rotated Y-cut $LiTaO_3$ substrate whose cut angle θ from the Y axis to the Z axis around the X axis ranges from 52.0° to 58.0°, the surface acoustic wave propagating in the direction of the X axis of said piezoelectric substrate.

2. A surface acoustic wave device according to claim 1, wherein the standardized thickness H/λ of the interdigital electrodes ranges from 0.050 to 0.065, and said piezoelectric substrate is a rotated Y-cut $LiTaO_3$ substrate whose cut angle θ from the Y axis to the Z axis around the X axis ranges from 52.4° to 58.0°.

3. A surface acoustic wave device comprising:

a piezoelectric substrate;

an electrode unit for exciting a surface acoustic wave on a surface of said piezoelectric substrate; and

reflectors for reflecting the surface acoustic wave at said reflectors, wherein:

said electrode unit comprises an interdigital electrodes including a thin-film layer formed of copper or a copper alloy, and a connecting electrode connected to each of the interdigital electrodes; and

when the wavelength of the surface acoustic wave is indicated by λ, and when the thickness of the interdigital electrodes is indicated by H, the standardized thickness H/λ of the interdigital electrodes ranges from 0.050 to 0.065, and said piezoelectric substrate is a rotated Y-cut $LiTaO_3$ substrate whose cut angle θ from the Y axis to the Z axis around the X axis ranges from 50.0° to 59.5°, the surface acoustic wave propagating in the direction of the X axis of said piezoelectric substrate.